NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

[illegible]2018-19/PG-C1 **Date: 05-04-2018**

LABORATORY REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project: Development works to MEI play ground.}
Ref: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

PHYSICAL TESTS ON CEMENT

Brand : PRIYA
Grade* : 53,
Type* : O.P.C

TABLE I:

Sl. No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**162 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.85 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**28.48 N/Sq mm** **40.14 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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For Newzen Consultants Bangalore
Proprietor

NC/PMC/PD/MEI/2018-19/PG-PCC1 Date: 05-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	97.30	85-100	95 – 100
20mm	64.10	0 -20	30- 70
10mm	38.60	0 -5	10- 35
4.75mm	4.35	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	86.20	60-95	75-100	85-100	
01.18	72.05	30-70	55-90	75-100	
600. mic	34.60	15-34	35-59	60-79	
300 mic	18.50	5-20	8-30	12-40	
150 mic	7.90	0-10	0-10	0-10	

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

2018-19/PG-C2 **Date: 09-04-2018**

TEST REPORT ON CEMENT:

53 Grade Cement Sample (IS 12269-1987).
Development works to MEI play ground.}
QC/18-19,
Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Contractor*: Sri. Shivaram. R.

PHYSICAL TESTS ON CEMENT

: PRIYA
: 53,
: O.P.C

Sl. No.	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	153 min	Shall not be less than 30 min
2	Final setting time	265 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.70 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.16 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	29.32 N/Sq mm 40.06 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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NCPPC/PD/MEI/2018-19/PG-PCC2 Date: 09-04-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .

[Project*: Development works to MEI play ground.]

Ref: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Shivaram. R.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.45	85-100	95 – 100
20mm	65.15	0 -20	30- 70
10mm	19.80	0 -5	10- 35
4.75mm	3.40	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	89.15	60-95	75-100	85-100	
01.18	74.80	30-70	55-90	75-100	
600 mic	42.60	15-34	35-59	60-79	
300 mic	17.55	5-20	8-30	12-40	
150 mic	7.45	0-10	0-10	0-10	

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NCPMC/PD/MEI/2018-19/PG-FA1 **Date: 12-04-2018**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
(Project*: Development works to MEI play ground.)
Ref: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**98.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**89.15**	60-95	75-100	85-100	
01.18	**74.60**	30-70	55-90	75-100	
600 mic	**45.05**	15.34	35-59	60-79	
300 mic	**24.15**	5-20	8-30	12-40	
150 mic	**8.30**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.23%**	-----
2	Silt Content	----	**0.52 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/PMC/PD/MEI/2018-19/PG-CA1

Date: 12-04-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.45	85-100	90 - 100
10 mm	43.90	0 - 20	25 - 55
4.75 mm	3.75	0 - 5	0 - 10

TABLE 1.2

SL No	Test conducted	Results	Requirements as per IS 383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1	Flakiness Index	22.46%	Not to exceed 25 %
2	Crushing value	26.68%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/PD/MEI/2018-19/PG-CB5

Date: 16-05-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-05-18	16-05-18	07	22500	380	16.89	16.89
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	390	17.33	

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NC/PMC/PD/MEI/2018-19/PG-CB7 Date: 26-06-2018

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-18	26-06-18	07	22500	445	19.78	**19.26**
	002	"	"	"	"	435	19.33	
	003	"	"	"	"	420	18.67	

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NC/PMC/PD/MEI/2018-19/PG-K1

Date: 10-07-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

1. PHYSICAL TESTS ON KERB STONES:

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.39	23.50	23.28	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.35	22.95		
3	003	3.38	23.40		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.55	4.55
2	002	4.68	
3	003	4.43	

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NC/PMC/PD/MEI/2018-19/PG-K2 Date: 16-07-2018

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development works to MEI play ground.}
Ref.: Material testing/QC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shivaram. R.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	22.85	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.32	22.75		
3	003	3.31	22.45		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.62	4.58
2	002	4.75	
3	003	4.38	

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